

	Document ID	Issue Date	Pages	Title	Current OR
1	US 20050152407 A1	20050714	10	Output clock adjustment for a digital I/O between physical layer device and media access controller	370/508
2	US 20050084020 A1	20050421	25	Data receiving device	375/257
3	US 20050025222 A1	20050203	28	System and method for despreading in a spread spectrum matched filter	375/141
4	US 20050018759 A1	20050127	27	System and method for despreading in a spread spectrum matched filter	375/152
5	US 20040008730 A1	20040115	17	System and method for improved synchronous data access	370/505
6	US 20030189985 A1	20031009	41	Data communication method and data communication device and semiconductor device	375/259
7	US 20030179779 A1	20030925	13	Apparatus for controlling data transmission/reception between main system and remote system of BTS in mobile communication system	370/503
8	US 20030161409 A1	20030828	41	Data communication method and data communication device and semiconductor device	375/260
9	US 20030156653 A1	20030821	42	Data communication method and data communication device and semiconductor device	375/259
10	US 20030156603 A1	20030821	149	Apparatus and method for trellis encoding data for transmission in digital data transmission systems	370/485
11	US 20030099253 A1	20030529	13	Apparatus and method for arbitrating data transmission amongst devices having SMII standard	370/462
12	US 20030095618 A1	20030522	22	Data transmitting unit, data communicating apparatus and data communicating method	375/354
13	US 20030081688 A1	20030501	41	Data communication method and data communication device and semiconductor device	375/259
14	US 20030031133 A1	20030213	15	Line loop back for very high speed application	370/241
15	US 20020146084 A1	20021010	12	Apparatus and method for oversampling with evenly spaced samples	375/360

	<b>Current XRef</b>	<b>Inventor</b>
<b>1</b>	370/503	Pflum, Marty
<b>2</b>		Kikuchi, Hidekazu
<b>3</b>		Underbrink, Paul A. et al.
<b>4</b>		Underbrink, Paul A. et al.
<b>5</b>	375/359	Helzer, Amir
<b>6</b>		Okuda, Yuichi et al.
<b>7</b>	370/466	Kim, Kyou-Seung
<b>8</b>		Okuda, Yuichi et al.
<b>9</b>		Okuda, Yuichi et al.
<b>10</b>		Rakib, Selim Shlomo et al.
<b>11</b>	370/461; 370/466	Kim, Mee Sun
<b>12</b>		Iseki, Yukimasa
<b>13</b>		Okuda, Yuichi et al.
<b>14</b>	370/249	Momtaz, Afshin D.
<b>15</b>	375/376	Cranford, Hayden Clavie JR. et al.

	Document ID	Issue Date	Pages	Title	Current OR
16	US 20020015423 A1	20020207	148	Apparatus and method for trellis encoding data for transmission in digital data transmission systems	370/485
17	US 20020006177 A1	20020117	14	Parallel data interface	375/371
18	US 20010046266 A1	20011129	149	Apparatus and method for scdma digital data transmission using orthogonal codes and head end modem with no tracking loops	375/259
19	US 20010024474 A1	20010927	149	Apparatus and method for trellis encoding data for transmission in digital data transmission systems	375/259
20	US 20010001616 A1	20010524	149	Apparatus and method for SCDMA digital data transmission using orthogonal codes and a head end modem with no tracking loops	375/259
21	US 6909739 B1	20050621	15	Signal acquisition system for spread spectrum receiver	375/152
22	US 6895062 B1	20050517	14	High speed serial interface	375/355
23	US 6763079 B1	20040713	38	Semiconductor device allowing easy confirmation of operation of built in clock generation circuit	375/376
24	US 6594329 B1	20030715	17	Elastic buffer	375/372
25	US 6477181 B1	20021105	44	Data communication method and system	370/476
26	US 6370200 B1	20020409	22	Delay adjusting device and method for plural transmission lines	375/257
27	US 6356555 B1	20020312	110	Apparatus and method for digital data transmission using orthogonal codes	370/441
28	US 6243378 B1	20010605	52	Method and apparatus for minimizing contention losses in networks	370/388
29	US 6198783 B1	20010306	70	System for wireless serial transmission of encoded information	375/346

	<b>Current XRef</b>	<b>Inventor</b>
<b>16</b>	370/487; 370/503; 370/516	Rakib, Selim Shlomo et al.
<b>17</b>		Pickering, Andrew et al.
<b>18</b>	375/354; 375/371	Rakib, Selim Shlomo et al.
<b>19</b>	375/354	Rakib, Selim Shlomo et al.
<b>20</b>	375/344	Rakib, Selim Shlomo et al.
<b>21</b>	375/149; 375/150	Eerola; Ville et al.
<b>22</b>	375/316; 375/354	Wilson; Thomas J.
<b>23</b>	327/156	Iwamoto; Hisashi
<b>24</b>	710/57	Susnow; Dean S.
<b>25</b>	370/503	Fujimori; Junichi et al.
<b>26</b>	327/237; 375/354; 714/700	Takahashi; Satoshi
<b>27</b>	370/442; 370/478; 370/479; 370/480; 370/503	Rakib; Selim Shlomo et al.
<b>28</b>	340/2.21; 370/411; 379/220.0 1	Olnowich; Howard Thomas
<b>29</b>	375/219; 375/238; 375/239; 375/302	Campana, Jr.; Thomas J.

	Document ID	Issue Date	Pages	Title	Current OR
30	US 6044059 A	20000328	52	Method and apparatus for minimizing contention losses in networks	370/225
31	US 6028903 A	20000222	17	Delay lock loop with transition recycling for clock recovery of NRZ run-length encoded serial data signals	375/360
32	US 5991308 A	19991123	161	Lower overhead method for data transmission using ATM and SCDMA over hybrid fiber coax cable plant	370/395.53
33	US 5959995 A	19990928	22	Asynchronous packet switching	370/400
34	US 5946359 A	19990831	31	Parameter measuring apparatus for digital quadrature modulation signals	375/331
35	US 5892766 A	19990406	29	Method and apparatus for coordinating access to an output of a routing device in a packet switching network	370/412
36	US 5867541 A	19990202	25	Method and system for synchronizing data having skew	375/354
37	US 5854816 A	19981229	10	Loop back device of packet communication T1 network	375/376
38	US 5751773 A	19980512	90	System for wireless serial transmission of encoded information	375/346
39	US 5742644 A	19980421	91	Receiving circuitry for receiving serially transmitted encoded information	375/316
40	US 5694428 A	19971202	72	Transmitting circuitry for serial transmission of encoded information	375/260
41	US 5644604 A	19970701	12	Digital phase selector system and method	375/354
42	US 5610953 A	19970311	21	Asynchronous low latency data recovery apparatus and method	375/373

	<b>Current XRef</b>	<b>Inventor</b>
<b>30</b>	340/2.6; 370/384; 370/388; 379/272	Olnowich; Howard Thomas
<b>31</b>	375/375	Drost; Robert J. et al.
<b>32</b>	370/342; 370/395.5 2; 370/395.6 5; 370/474	Fuhrmann; Amir Michael et al.
<b>33</b>	370/351	Wicki; Thomas M. et al.
<b>34</b>	329/304; 375/332; 375/340	Tajiri; Shinsuke et al.
<b>35</b>		Wicki; Thomas Martin et al.
<b>36</b>	370/516; 375/231	Tanaka; Akira et al.
<b>37</b>	370/249; 375/221; 714/716	Kim; Si-Deog et al.
<b>38</b>	370/503; 370/506	Campana, Jr.; Thomas J.
<b>39</b>	370/503; 370/514	Campana, Jr.; Thomas J.
<b>40</b>	370/509	Campana, Jr.; Thomas J.
<b>41</b>		Larson; Jeffrey Dale
<b>42</b>	327/144; 375/369; 375/371	Betts; Robert et al.

	Document ID	Issue Date	Pages	Title	Current OR
43	US 5602878 A	19970211	10	Method of delivering stable data across an asynchronous interface	375/354
44	US 5594734 A	19970114	38	Asynchronous processor access to a switch table in a network with isochronous capability	370/395.53
45	US 5590160 A	19961231	16	Symbol and frame synchronization in both a TDMA system and a CDMA	375/367
46	US 5509038 A	19960416	8	Multi-path data synchronizer system and method	375/371
47	US 5490252 A	19960206	27	System having central processor for transmitting generic packets to another processor to be altered and transmitting altered packets back to central processor for routing	709/249
48	US 5432815 A	19950711	20	Data modulator-demodulator apparatus of a spread spectrum communication system	375/145
49	US 5359630 A	19941025	14	Method and apparatus for realignment of synchronous data	375/354
50	US 5299193 A	19940329	31	Signal interface for coupling a network front end circuit to a network adapter circuit	370/463
51	US 5241543 A	19930831	21	Independent clocking local area network and nodes used for the same	370/509
52	US 4965793 A	19901023	20	Method and apparatus for interfacing a system control unit for a multi-processor	370/236
53	US 4944038 A	19900724	12	Method and apparatus for utilization of dual latency stations for performance improvement of token ring networks	370/454
54	US 4876700 A	19891024	14	Data demodulator	375/333
55	US 4759014 A	19880719	31	Asynchronous-to-synchronous digital data multiplexer/demultiplexer with asynchronous clock regeneration	370/503

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<b>43</b>	370/298; 370/503; 375/220; 375/357; 375/377	Cross; Leonard W.
<b>44</b>	370/513; 709/242	Worsley; Debra J. et al.
<b>45</b>	370/342; 370/515; 375/149; 375/150	Ostman; Kjell
<b>46</b>	370/517; 375/375; 714/700	Wicki; Thomas M.
<b>47</b>	370/402; 370/468; 709/246	Macera; Mario et al.
<b>48</b>	375/141; 375/220; 375/257; 380/34	Kang; Dae-Sun et al.
<b>49</b>	375/362	Wade; Paul C. et al.
<b>50</b>	370/465	Szczepanek; Andre
<b>51</b>	375/356	Amada; Eiichi et al.
<b>52</b>	370/463; 370/516	Polzin; R. Stephen et al.
<b>53</b>		Hardy; R. H. Stephen et al.
<b>54</b>	375/376	Grindahl; Mervin L.
<b>55</b>	370/517; 370/535; 370/538; 370/543	Decker; David G. et al.



	Document ID	Issue Date	Pages	Title	Current OR
56	US 4739321 A	19880419	93	Decentralized line reservation interface within a local data network	340/825.5
57	US 4679191 A	19870707	123	Variable bandwidth switching system	370/355
58	US 4638496 A	19870120	41	Secure reliable transmitting and receiving system for transfer of digital data	375/351
59	US 4627047 A	19861202	25	Integrated voice and data telecommunication switching system	370/384
60	US 4608559 A	19860826	31	Local modulated carrier data network with a collision avoidance protocol	340/825.5
61	US 4597077 A	19860624	124	Integrated voice/data/control switching system	370/352
62	US 4325146 A	19820413	27	Non-synchronous object identification system	398/108
63	US 4263673 A	19810421	8	Receive buffer for converting synchronous-to-asynchronous data	375/370
64	US 4099028 A	19780704	19	Asynchronous multiplexer-demultiplexer	370/479

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56	370/445	Friedman; Michael S. et al.
57	370/358; 370/468	Nelson; Gary A. et al.
58	455/212; 455/222	Jensen; Garold K.
59		Pitroda; Satyan G. et al.
60	370/462; 375/222	Friedman; Michael S. et al.
61	370/522	Nelson; Gary A. et al.
62	340/10.33; 340/10.42; 340/5.62; 340/5.7; 340/636.1 5; 340/928; 370/449; 370/475; 398/128; 398/170	Lennington; John W.
63	375/363	Bingham; John A. C. et al.
64	370/389; 370/535	Towson, IV; Jacob T.

	Document ID	Issue Date	Pages	Title	Current OR
1	US 6934749 B1	20050823	285	Tracking distributed data retrieval in a network device	709/224
2	US 6930890 B1	20050816	84	Network device including reverse orientated modules	361/788
3	US 6897497 B2	20050524	45	Methods, apparatus, and systems for reducing interference on nearby conductors	257/208
4	US 6880086 B2	20050412	364	Signatures for facilitating hot upgrades of modular software components	713/191
5	US 6876652 B1	20050405	114	Network device with a distributed switch fabric timing system	370/386
6	US 6868092 B1	20050315	115	Network device with embedded timing synchronization	370/503
7	US 6850415 B2	20050201	19	Methods and apparatus for circuit integration	361/752
8	US 6822876 B2	20041123	33	High-speed electrical router backplane with noise-isolated power distribution	361/788
9	US 6812803 B2	20041102	33	Passive transmission line equalization using circuit-board thru-holes	333/1
10	US 6760339 B1	20040706	84	Multi-layer network device in one telecommunications rack	370/401
11	US 6742134 B1	20040525	73	Maintaining a local backup for data plane processes	714/4
12	US 6715097 B1	20040330	77	Hierarchical fault management in computer systems	714/2
13	US 6708291 B1	20040316	77	Hierarchical fault descriptors in computer systems	714/39
14	US 6705895 B2	20040316	20	Orthogonal interface for connecting circuit boards carrying differential pairs	439/608

	<b>Current XRef</b>	<b>Inventor</b>
<b>1</b>	709/217; 709/223	Black; Darryl et al.
<b>2</b>	361/803	Branscomb; Brian
<b>3</b>	257/209; 257/210; 257/211; 257/664	Savaria; Yvon et al.
<b>4</b>	713/177; 713/200	Kidder; Joseph D. et al.
<b>5</b>	370/503; 375/376	Bell; Colin et al.
<b>6</b>	327/175; 370/401; 709/248; 713/400	Bell; Colin et al.
<b>7</b>	361/796; 361/802	Dimarco; Mario
<b>8</b>	361/794; 361/795	Goergen; Joel R.
<b>9</b>	333/236	Goergen; Joel R.
<b>10</b>	361/788; 370/469; 709/249	Noel; Chris R. et al.
<b>11</b>		Pothier; Peter et al.
<b>12</b>	718/104	Kidder; Joseph D. et al.
<b>13</b>	714/26; 714/27; 714/46; 714/57	Kidder; Joseph D.
<b>14</b>	439/108	Hasircoglu; Alexander W.

	Document ID	Issue Date	Pages	Title	Current OR
15	US 6703868 B2	20040309	45	Methods, apparatus, and systems for reducing interference on nearby conductors	326/101
16	US 6671699 B1	20031230	76	Shared database usage in network devices	707/201
17	US 6658580 B1	20031202	106	Redundant, synchronous central timing systems with constant master voltage controls and variable slave voltage controls	713/400
18	US 6658579 B1	20031202	119	Network device with local timing systems for automatic selection between redundant, synchronous central timing systems	713/400
19	US 6654903 B1	20031125	76	Vertical fault isolation in a computer system	714/4
20	US 6639910 B1	20031028	16	Functional separation of internal and external controls in network devices	370/351
21	US 6601186 B1	20030729	73	Independent restoration of control plane and data plane functions	714/4
22	US 6332198 B1	20011218	78	Network device for supporting multiple redundancy schemes	714/6
23	US 6184702 B1	20010206	24	Crosstalk prevention circuit	326/21
24	US 6114890 A	20000905	112	Skew-reduction circuit	327/170
25	US 6110221 A	20000829	12	Repeater blocks adjacent clusters of circuits	716/8
26	<u>US 6081146 A</u>	20000627	18	Interface circuit and interface circuit delay time controlling method	327/277
27	US 6015300 A	20000118	10	Electronic interconnection method and apparatus for minimizing propagation delays	439/61

	<b>Current XRef</b>	<b>Inventor</b>
<b>15</b>	326/47; 326/86; 327/261; 327/403; 327/565	Savaria; Yvon et al.
<b>16</b>	707/200	Black; Darryl et al.
<b>17</b>	331/2; 713/500	Bell; Colin et al.
<b>18</b>	713/500	Bell; Colin et al.
<b>19</b>	714/43	Sullivan, Jr.; Daniel J. et al.
<b>20</b>	370/254	Provencher; Roland T. et al.
<b>21</b>	714/44; 719/321; 719/327	Fox; Barbara A. et al.
<b>22</b>	370/217; 370/220; 714/41	Simons; Corey et al.
<b>23</b>	257/659; 257/E23.1 44; 326/101; 326/93; 327/382; 327/403	Takahashi; Hiroshi et al.
<b>24</b>		Okajima; Yoshinori et al.
<b>25</b>	326/41; 326/82; 716/14	Pai; Yet-Ping et al.
<b>26</b>	327/149; 327/158; 327/271	Shiochi; Masuzumi et al.
<b>27</b>	361/788	Schmidt, Jr.; Raymond J. et al.

	Document ID	Issue Date	Pages	Title	Current OR
28	US 6008705 A	19991228	8	Crosstalk suppression in wide, high-speed buses	333/1
29	US 5994946 A	19991130	7	Alternating inverters for capacitive coupling reduction in transmission lines	327/403
30	US 5994766 A	19991130	12	Flip chip circuit arrangement with redistribution layer that minimizes crosstalk	257/659
31	JP 06184702 A	19940705	5	LOW THERMAL EXPANSION ALLOY AND ALLOY STRIP FOR SHADOW MASK	
32	JP 06114890 A	19940426	8	INJECTION MOLDING MOLD	
33	JP 06110221 A	19940422	10	ELECTROSTATIC INFORMATION RECORDING MEDIUM AND ELECTROSTATIC INFORMATION RECORDING MEDIUM	
34	JP 06081146 A	19940322	4	MAGNETRON SPUTTERING DEVICE	
35	JP 06008705 A	19940118	5	WHEEL	
36	US 6015300 A	20000118	10	Electronic interconnection system for minimizing propagation delays	
37	JP 06184702 A	19940705	5	Low thermal expansion alloy and alloy strip for shadow mask - comprises nickel@, carbon, silicon@, manganese@, phosphorus, sulphur, chromium@, oxygen, nitrogen, boron@ and iron@	
38	JP 06114890 A	19940426	8	Moulds for injection moulding resin products - has 1st and 2nd changeover arms connected to movable side cavity unit and fixed side bottom plate respectively, rotator with cam projections, etc.	

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28	327/551; 333/12	Ghoshal; Uttam Shymalindu
29	257/E23.1 44; 327/261	Zhang; Xiaonan
30	257/664; 257/691; 257/E21.5 11; 257/E23.1 14; 257/E23.1 51	Shenoy; Jayarama N. et al.
31		TAKEMOTO, TOSHIHIKO et al.
32	425/595	SAITO, KAZUO et al.
33	430/57.7	SUGIYAMA, KAYOKO
34		SHIRAISHI, YASUSHI
35		FUKUBEYAMA, SEIYA
36		DEANGELIS, P L et al.
37		
38		



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39	JP 06110221 A	19940422	10	Electrostatic information recording medium - includes resin layer of low trap opening temp of charge obtd by thermal stimulus electric current measurement and insulating layer of high trap opening temp	
40	JP 06081146 A	19940322	4	Magnetron type sputtering appts. - including shutter plate between target and substrate and revolving shaft	
41	JP 06015300 A	19940125	15	Sludge dehydrating agent with stable and high dehydrating rate - contains water soluble vinyl! polymer	
42	JP 06008705 A	19940118	5	Wheel set for vehicles of transportation system e.g. cable cars - has elastic member between pair of elastic members having lower stiffness and made from different material	

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39		
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41		IMAMURA, K et al.
42		